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# DMC-GF1

Micro System Digital Camera

- LUMIX G Micro System - Interchangeable Lens Digital Camera
- The World's Smallest, Lightest Body and Artistic Flat Design
- High Image Quality with 12.1-megapixel Live MOS Sensor and Venus Engine HD
- HD Movie in AVCHD Lite and Motion Picture P Mode
- Artistic Photos with My Color Mode and Peripherical Defocus Mode in Full-time Live View
- iA (Intelligent Auto) Mode with Face Recognition
- LUMIX G 20mm/F1.7 ASPH. Based on the Micro Four Thirds System Standard

LUMIX G Micro System Digital Camera GF1 - The World's Smallest, Lightest Interchangeable Lens Camera with Artistic Flat Design

## TYPE

| | |
|---|---|
| **Camera Type** | Digital interchangeable lens system camera |
| **Recording media** | SD memory card, SDHC memory card |
| **Image sensor size** | 17.3 x 13.0 mm (in 4:3 aspect ratio) |
| **Mount** | Micro Four Thirds mount |

## IMAGE SENSOR

| | |
|---|---|
| **Type** | Live MOS Sensor |
| **Total pixels** | 13.1 Megapixels |
| **Camera effective pixels** | 12.1 Megapixels |
| **Colour filter** | Primary colour filter |
| **Dust reduction system** | Supersonic wave filter |

## RECORDING SYSTEM

| | |
|---|---|
| **Recording file format** | Still Image: JPEG(DCF, Exif 2.21), RAW, DPOF compatible<br>Still Image with Audio: JPEG(DCF, Exif 2.21) + QuickTime<br>Motion Image: AVCHD Lite / QuickTime Motion JPEG |
| **Aspect ratio** | 4:3, 3:2, 16:9, 1:1 |

### File size(Pixels)

| | |
|---|---|
| **Still Image** | [4:3] 4000 x 3000(L), 2816 x 2112(M), 2048 x 1536(S)<br>[3:2] 4000 x 2672(L), 2816 x 1880(M), 2048 x 1360(S) |

**Award**

2009-09-10T17:47:00

DMC-GF1, Amateur Photographer, September 2009

**Award**

2009-10-12T11:41:00

DMC-GF1, Photography Blog, Highly Recommended Award, October 2009

**Award**

2009-10-16T14:55:00

DMC-GF1, DP Review, Highly Recommended Award, October 2009

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| | |
|---|---|
| | [16:9] 4000 x 2248(L), 2816 x 1584(M), 1920 x 1080(S)<br>[1:1] 2992 x 2992(L), 2112 x 2112(M), 1504 x 1504(S) |
| **Motion Image** | Motion JPEG<br>[4:3] QVGA : 320 x 240, 30fps / VGA : 640 x 480, 30fps<br>[16:9] WVGA : 848 x 480, 30fps<br>[HD] 1280 x 720, 30fps<br>AVCHD Lite<br>NTSC:[HD] 1280 x 720, 60p (sensor output is 30fps)(SH: 17Mbps, H: 13Mbps, L: 9Mbps)<br>PAL:[HD] 1280 x 720, 50p (sensor output is 25fps)(SH: 17Mbps, H: 13Mbps, L: 9Mbps) |
| **Continuous recordable time (Motion images)** | AVCHD Lite with picture quality set to [SH]: Approx. 210 min with H-H020 / Approx. 170 min with H-FS014045<br>Motion JPEG with picture quality set to [HD]: Approx. 210 min with H-H020 / Approx. 170 min with H-FS014045 |
| **Actual recordable time (Motion images)** | AVCHD Lite with picture quality set to [SH]: Approx. 110 min with H-H020 / Approx. 100 min with H-FS014045<br>Motion JPEG with picture quality set to [HD]: Approx. 110 min with H-H020 / Approx. 100 min with H-FS014045 |
| **Image quality** | RAW, RAW+Fine, RAW+Standard, Fine, Standard |
| **Colour space** | sRGB, Adobe RGB |

## AUTO FOCUS

| | |
|---|---|
| **Type** | Contrast AF system |
| **Focusing mode** | AFS/AFC/MF |
| **AF mode** | Face detection / AF Tracking / 23-area-focusing / 1-area-focusing |
| **AF detective range** | EV 0-18 (F3.5 lens, ISO 100) |
| **AF assist lamp** | yes |
| **AF lock** | AF/AE LOCK button or Shutter button halfway pressed in AFs mode |
| **Others** | Pre AF(Quick AF/Continuous AF),AF+MF, MF Assist(5x, 10x) |

## EXPOSURE CONTROL

| | |
|---|---|
| **Light metering system** | 144-zone multi-pattern sensing system |
| **Light metering mode** | Intelligent Multiple/Center Weighted/Spot |
| **Metering range** | EV 0-18 (F2.0 lens, ISO 100) |
| **Exposure mode** | Program AE, Aperture Priority AE, Shutter Priority AE, Manual |
| **ISO sensitivity** | Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / Intelligent ISO |
| **Exposure compensation** | 1/3EV Step ±3EV |
| **AE lock** | AF/AE LOCK button or Shutter button halfway pressed |
| **AE bracket** | 3,5,7 frame, in 1/3 or 2/3 EV Step, ±2 EV |

## WHITE BALANCE

| | |
|---|---|
| **White balance** | Auto / Daylight / Cloudy / Shade / Halogen / Flash / White Set 1,2 / Color temperature setting |
| **White balance adjustment** | Blue/amber bias, Magenta/green bias |
| **Color temperature setting** | 2500-10000K in 100K |
| **White balance bracket** | 3 exposures in blue/amber axis or in magenta/green axis |

**Award**
2009-11-02T14:01:00
DMC-GF1, Trusted Reviews, Editor's Choice Award, November 2009

**Award**
2009-12-01T17:37:00
DMC-GF1, What Digital Camera, December 2009

**Award**
2009-11-09T17:26:00
DMC-GF1, Pocket Lint, Hot Product Award, November 2009

**Award**
2009-11-17T17:10:00
DMC-GF1, ephotozine, Editor's Choice Award, November 2009

**Award**
2009-11-27T11:04:00
DMC-GF1, Camera Labs, Highly Recommended Award, November 2009

**Award**
2009-11-30T10:23:00
DMC-GF1, Trusted Reviews, Best Bridge Camera - 1st Place, November 2009

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## SHUTTER SYSTEM

| | |
|---|---|
| **Type** | Focal-plane shutter |
| **Shutter speed** | Still Images: 1/4000 ~ 60 and Bulb (up to approx. 4minutes) |
| **Self timer** | 2sec / 10sec / 10sec, 3 images |
| **Remote control** | Remote control with bulb function by DMW-RSL1 (Optional) |

## SCENE MODE

| | |
|---|---|
| **Movie SCN mode** | Portrait/Soft Skin/Scenery/Architecture/Sports/Flower/Food/Objects/ Low Light/Party/Sunset<br>(Activated by selecting Still Image SCN mode then pressing Movie Button. Still Image SCN modes without corresponding Movie SCN mode is recorded in Normal mode or other related mode.) |
| **Still Image SCN mode** | Portrait/Soft Skin/Scenery/Architecture/Sports/Peripheral Defocus/ Flower/Food/Objects/Night Portrait/Night Scenery/Illuminations/Baby 1,2/Pet/Party/Sunset |
| **MY COLOR MODE** | Expressive/Retro/Pure/Elegant/Monochrome/Dynamic Art/Silhouette/ Custom(Color/Brightness/Saturation/ adjustable) |

## BURST SHOOTING

| | |
|---|---|
| **Burst speed** | 3 frames/sec (High speed) or 2 frames/sec (Low speed) |
| **Number of recordable images** | 7 images (when there are RAW files with the particular speed)<br>Unlimited consecutive shooting (when there are no RAW files)<br>(depending on memory card size, battery power, picture size, and compression) |

## BUILT-IN-FLASH

| | |
|---|---|
| **Type** | TTL Built-in-Flash, GN6.0 equivalent (ISO 100 ·m), Built-in Pop-up |
| **Built-in flash(Mode)** | Auto, Auto/Red-eye Reduction, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off |
| **X-Sync(Synchronization) speed** | Less than 1/160 second |
| **Flash output adjustment** | 1/3EV Step ±2EV |
| **Flash synchronization** | 1st. Curtain Sync, 2nd Curtain Sync. |
| **Hot shoe** | TTL Auto with FL220/FL360/FL500(Optional) |

## LCD MONITOR

| | |
|---|---|
| **Type** | Low temperature Polycrystalline TFT LCD |
| **Monitor size** | 3.0inch / 3:2 Aspect / Wide viewing angle |
| **Pixels** | 460K dots |
| **Filed of view** | Approx. 100% |
| **Monitor adjustment** | Brightness (7 levels), Color (7levels) |
| **LCD mode** | Off / Auto Power LCD / Power LCD |
| **OSD language** | Japanese, English, German, French, Italian, Spanish |

## LIVE VIEW

| | |
|---|---|
| **Digital zoom** | 2x, 4x |
| **Extra optical zoom** | Max.2x (Not effective with L size recording. Magnification ratio depends on the recording pixels and aspect ratio.) |

**Award**

2009-11-30T10:26:00

DMC-GF1, Trusted Reviews, Product of the Year - 1st Place, November 2009

**Award**

2009-12-03T11:31:00

DMC-GF1, Digital Photographer, Digital Photographer Innovation Award, issue 90

**Award**

2009-12-23T16:55:00

DMC-GF1, Stuff.tv, Hot Buy Award, December 2009

H-FS014045E

H-FS045200E

H-VS014140

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| | |
|---|---|
| **Other functions** | Guide Lines (3 patterns)<br>Real-time Histogram |

## FILM MODE

| | |
|---|---|
| **Colour** | Standard / Dynamic / Nature / Smooth / Nostalgic / Vibrant |
| **Black and white** | Standard / Dynamic / Smooth |
| **Others** | My Film1 / My Film2 / Multi Film |

## PLAYBACK

| | |
|---|---|
| **Playback mode** | Normal playback, 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (16x Max.), Slideshow, Playback Mode (Normal/Picture/AVCHD Lite/Motion JPEG/Category/Favorite),<br>Title Edit, Text Stamp, Resize, Trimming, Aspect Conversion, Rotate, Rotate Display, Print Set, Protect, Audio Dubbing |

## PROTECTION / ERASE

| | |
|---|---|
| **Protection** | Single / Multi or Cancel |
| **Erase** | Single / Multi / All / Except Favorite |

## DIRECT PRINT

| | |
|---|---|
| **Print** | PictBridge compatible(Print size, Layout, Date setting is selectable ) |

## INTERFACE

| | |
|---|---|
| **HDMI** | miniHDMI TypeC Video: Auto / 1080i / 720p / 480p (576p in PAL system) Audio: Dolby® Digital Creator |
| **USB** | USB 2.0 High Speed |
| **Speaker** | YES |
| **Audio video output** | Monaural Type, NTSC/PAL, NTSC only for North America *Check the website of the Panasonic sales company in your country or region for details on the products that are available in your market. |
| **External microphone terminal** | NO |
| **Built-in microphone** | Monaural, Wind-cut: Off / Low / Standard / High |
| **Remote** | φ2.5mm. |

## GENERAL DATA

### Power

| | |
|---|---|
| **Battery** | ID-Security Li-ion Battery Pack (7.2V, 1250mAh) (Included)<br>Battery Charger/AC Adapter (Input: 110-240V AC, DC Cable is required) |
| **Battery life** | Still Images CIPA Standard : Approx. 380 images(LCD) with LUMIX G 20mm/F1.7 ASPH. Motion Images Approx. 210 minutes (LCD) Recording time capacity in AVCHD SH mode |

### Dimensions [mm]

| | |
|---|---|
| **Width** | 119.0 |
| **Height** | 71.0 |
| **depth** | 36.3 |

H-F007014

H-F007014E

H-ES045E

H-H020E

L-ES014050E

L-X025E

L-RS014050E

L-RS014150E

DMW-MA1E

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| | |
|---|---|
| **Weight** | Approx. 285g / 10.05 oz (Body only) |

## Operating Condition

| | |
|---|---|
| **Operating temperature** | 0 to 40 (32°F to 104°F) |
| **Operating humidity** | 10% to 80% |

## Standard Accessories

| | |
|---|---|
| **Software** | PHOTOfunSTUDIO 4.0 HD Edition<br>SILKYPIX® Developer Studio 3.0 SE<br>USB Driver |
| **Standard accessories** | Battery Charger/AC Adapter, Battery Pack, Body Cap, AV Cable, USB Connection Cable, AC Cable, Shoulder Strap, CD-ROM |

## Interchangeable Lens-1

| | |
|---|---|
| **Lens Construction** | 7 elements in 5 groups (2 Aspherical lenses) |
| **Mount** | Micro Four Thirds mount |
| **Optical Image Stabilizer** | No |
| **Focal Length** | f=20mm (35mm camera equivalent 40mm) |
| **Aperture Type** | 7 diaphragm blades / Circular aperture diaphragm |
| **Aperture** | F1.7 |
| **Minimum Aperture** | F16 |
| **Closest Focusing Distance** | 0.2m / 0.66ft |
| **Maximum magnification** | Approx. 0.13x / 0.25x (35mm camera equivalent) |
| **Diagonal Angle of View** | 57° |

## GENERAL DATA

| | |
|---|---|
| **Filter Size** | φ46mm / 1.81 in |
| **Max. Diameter** | φ63mm / 2.48 in |
| **Overall Length** | Approx. 25.5mm / 1.00 in (from the tip of the lens to the base side of the lens mount) |
| **Weight [g]** | Approx. 100g |
| **Weight [oz]** | 3.53oz |
| **Standard Accessory** | Lens Cap, Lens Rear Cap, Lens Storage Bag |

## Interchangeable Lens-2

DMW-MA2ME

DMW-MA3RE

DMW-LPL46E

DMW-FL500E

DMW-FL360E

DMW-FL220E

DMW-RSL1E

DMW-DCC3E

DMW-BLB13E

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DMW-SSTG1-A

DMW-SSTG1-C

DMW-SSTG1-R

DMW-SSTG1E-A

DMW-SSTG1E-C

DMW-SSTG1E-K

DMW-SSTG1E-R

DMW-SSTG2

DMW-SSTG2E-W

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DMW-SSTG3

DMW-SSTG3E-T

DMW-CZ18E

DMW-CZ18K

RP-CDHM15E-K